AMENDMENTS TO THE CLAIMS II.

This listing of claims replaces all prior listings, or versions of claims.

(Currently Amended) A semiconductor device comprising: 1. a substrate including silicon;

a dielectric layer atop the substrate, the dielectric layer including a first sub-layer, a second sub-layer and a first non-discrete transitional sub-layer residing between the first and second sub-layer, wherein the first sub-layer has an etch resistance different than the second sublayer; and

an opening extending no deeper than the sub-layer nearest the substrate.

- (Original) The semiconductor device according to claim 1, wherein an etch resistance of 2. the first sub-layer is greater than an etch resistance of the second sub-layer.
- (Original) The semiconductor device according to claim 1, wherein the first sub-layer has 3. a greater content of at least one of carbon and fluorine than the second sub-layer.
- (Original) The semiconductor device according to claim 1, wherein the first sub-layer 4. includes at least one component not included in the second sub-layer, the at least one component being selected from a group consisting of fluoroalkylsilanes, fluoralkylsiloxanes, perfluoroalkylsilanes, perfluoroalkylsiloxanes, alkylsilanes, and alkylsiloxanes.
- (Original) The semiconductor device according to claim 4, wherein the at least one 5. component is selected from a group consisting of methylsilane, dimethylsilane, trimethylsilane, 10/709,776 Page 2 of 7

trifluoromethylsilane, 1,2-disilanotetrafluorethylene, 1,3-bis(silanodifluoromethylene)disiloxane, 2,2-disilanohexafluorosilane, bis(trifluoromethyldisiloxanyl)difluormethane, octamethylcyclotetrasiloxane, and tetramethylcyclotetrasiloxane.

- (Original) The semiconductor device according to claim 1, wherein the dielectric layer 6. includes a third sub-layer residing between the substrate and the first sub-layer and a second nondiscrete transitional sub-layer residing between the third sub-layer and the first sub-layer.
- (Original) The semiconductor device according to claim 6, wherein the second sub-layer 7. and the third sub-layer have substantially the same etch resistance.
- 8-20. (Cancelled).
- 21. (New) A semiconductor device comprising: a substrate:

a dielectric layer atop the substrate, the dielectric layer including a first sub-layer, a second sub-layer and a first non-discrete transitional sub-layer residing between the first and second sub-layer, wherein the first sub-layer has an etch resistance different than the second sublayer; and

an opening extending no deeper than the sub-layer nearest the substrate;

wherein the first sub-layer includes at least one component not included in the second sub-layer, the at least one component being selected from a group consisting of fluoroalkylsilanes, fluoralkylsiloxanes, perfluoroalkylsilanes, and perfluoroalkylsiloxanes.

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- 22. (New) The semiconductor device according to claim 21, wherein an etch resistance of the first sub-layer is greater than an etch resistance of the second sub-layer.
- 23. (New) The semiconductor device according to claim 21, wherein the first sub-layer has a greater content of at least one of carbon and fluorine than the second sub-layer.
- 24. (New) The semiconductor device according to claim 21, wherein the at least one component is selected from a group consisting of methylsilane, dimethylsilane, trimethylsilane, trifluoromethylsilane, 1,2-disilanotetrafluorethylene, 1,3-bis(silanodifluoromethylene)disiloxane, 2,2-disilanohexafluorosilane, bis(trifluoromethyldisiloxanyl)difluormethane, octamethylcyclotetrasiloxane, and tetramethylcyclotetrasiloxane.
- 25. (New) The semiconductor device according to claim 21, wherein the dielectric layer includes a third sub-layer residing between the substrate and the first sub-layer and a second non-discrete transitional sub-layer residing between the third sub-layer and the first sub-layer.
- 26. (New) The semiconductor device according to claim 25, wherein the second sub-layer and the third sub-layer have substantially the same etch resistance.

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